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## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-022458

(43)Date of publication of application : 21.01.2000

(51)Int. Cl.

H03F 3/217

(21)Application number : 10-190778

(71)Applicant : SHARP CORP

(22)Date of filing : 06.07.1998

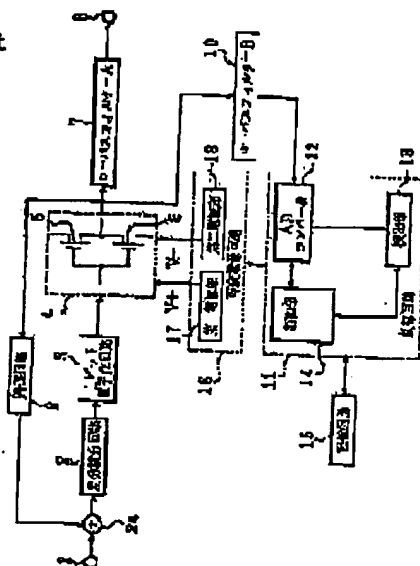
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## (54) PULSE WAVE AMPLIFIER

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a pulse wave amplifier that amplifies an audio signal with high efficiency while suppressing production of distortion.

**SOLUTION:** The pulse wave amplifier is provided with a 1-bit quantization circuit 3 that converts an audio signal into a 1st pulse wave signal, with a 1st amplifier 5 that amplifies a positive pulse in the 1st pulse wave signal, a 2nd amplifier 6 that amplifies a negative pulse of the 1st pulse wave signal, a 1st power supply section 17 that applies variably a 1st voltage to the 1st amplifier 5 to amplify the 1st pulse wave signal and to provide an output of a 2nd pulse wave signal, a 2nd power supply section 18 that applies variably a 2nd voltage to a 2nd amplifier 6, a detection section 13 that detects an offset of the 2nd pulse wave signal, and a control section 14 that controls the 1st voltage and the 2nd voltage corresponding to the offset.



## LEGAL STATUS

[Date of request for examination]

27.07.2001

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

3348019

[Date of registration]

06.08.2002

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]